08/459,141

Logon file405 10oct95 10:10:59
ANNOUNCEMENT **** ANNOUNCEMENT **** ANNOUNCEMENT

***New: Business & Industry (File 9)
Newspaper Abstracts Daily(TM) (File 483)

***Reload: Environmental Bibliography (File 68)
IAC Business A.R.T.S. (File 88)
(formerly Academic Index)
Books in Print (File 470)
Periodical Abstracts PlusText (File 484)
(formerly Newspaper & Periodical Abstracts)

Don't forget to register for Knight-Ridder Information's UPDATE '95!
...See September Chronolog for details

Win $500! Sept search contest entries performed in a market research file due by October 11, 1995

Free connect time and output in Business & Industry (File 9); Free October 1
Alerts in Business & Industry (File 9) and IAC Industry Express (File 12)...See HELP FREE for details

Message from database supplier:
MEDLINE and CANCERLIT erroneously annotated certain articles authored or co-authored by Dr. Bernard Fisher with the phrase "scientific misconduct--data to be reanalyzed." All such annotations have been removed or are being removed. We apologize for any problems or concerns this may have caused. Users should disregard those prior annotations.

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<
>>> Announcements last updated for 2oct95 <<<
F130: Due To Update Problems, Today's Data Is Not Yet Available, Pls Try Again Later .
SYSTEM:HOME
Menu System II: D2 version 1.7.3 term=ASCII
*** DIALOG HOMEBASE(SM) Main Menu ***

Information:
1. Announcements (new files, free connect time, price changes, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:
6. DIALOG Menus(SM)
7. DIALOG Business Connection(R), Headlines(SM), Medical Connection(SM)
8. DIALOG SourceOne(SM) Document Delivery
9. Data-Star
10. Other Online Menu Services & Files (MoneyCenter(R), OAG, TNT, etc.)

/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online

service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).
?begin biochem

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       10oct95 10:11:22 User214374 Session B131.1
            $0.00    0.006 Hrs FileHomeBase
     $0.00  Estimated cost FileHomeBase
     $0.07  SPRNTNET
     $0.07  Estimated cost this search
     $0.07  Estimated total session cost   0.006 Hrs.

SYSTEM:OS  - DIALOG OneSearch
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         (c) 1995 BIOSIS
*File   5: s (Meeting()Abstract) or abstracts/DE for 1994+ conference
records
  File  73:EMBASE  1974-1995/Iss 39
         (c) 1995 Elsevier Science B.V.
  File  76:Life Sciences Collection  1978-1995/Aug
         (c) 1995 Cambridge Sci Abs
  File 125:CLAIMS(R)/US PATENT  JUL 1995/OCT 03
         (c) 1995 IFI/Plenum Data Corp
  File 144:Pascal  1973-1995/Sep
         (c) 1995 INIST/CNRS
  File 155:MEDLINE(R)  1966-1995/Nov W4
         (c) format only 1995 Knight-Ridder Info
  File 156:Toxline(R)  1965-1995/May
         (c) format only 1995 Knight-Ridder Info
  File 305:Analytical Abstracts Online  1980-1995/Oct
         (c) 1995 Royal Soc Chemistry
  File 337:CHEMTOX(R)   1995/Q2
         (c) 1995 Resource Consultants, Inc.
  File 340:CLAIMS(R)/US Patents Abs  1950-1995/JUL
         (c) 1995 IFI/Plenum Data Corp.
  File 348:EUROPEAN PATENTS  1978-1995/SEP W4
         (c) 1995 European Patent Office
*File 348: Fulltext is forthcoming.  See HELP NEWS 348 for
more information.
  File 350:Derwent World Pat.  1963-1980/UD=9536
         (c) 1995 Derwent Info Ltd
  File 351:DERWENT WPI  1981-1995/UD=9539;UA=9533;UM=9528
         (c)1995 Derwent Info Ltd
  File 357:Derwent Biotechnology Abs  1982-1995/Oct B1
         (c) 1995 Derwent Publ Ltd
  File 358:Current Biotech Abs  1983-1995/Aug
         (c) 1995 Royal Society of Chemistry
*File 358: May 1995 update is in process and should complete later
today (09 Jun 1995).  Subsequent updates should be back on schedule.
  File 377:Derwent Drug File  1983-1995/Oct W1
         (c) 1995 Derwent Info Ltd.
  File 399:CA SEARCH(R)  1967-1995/UD=12315
         (c) 1995 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
  File 434:SciSearch(R)  1974-1995/Sep W3
         (c) 1995 Inst for Sci Info
  File 442:AMA Online Journal  1982-1995/Aug W4
         (c) 1995 American Medical Assoc.
*File 442: AMA Journals Online updates weekly beginning with UD=9504W3.
  File 444:NEJM Online  1985-1995/Sep W3
         (c) 1995 New England Journal of Medicine.
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  File 456:NME Express  1992-1995/Aug B2
         (c) 1995 J.R. Prous S.A.
*File 456: Bi-Weekly ALERTs now available.
  File 624:McGraw-Hill Publications Onl.  1985-1995/Oct 05
         (c) 1995 McGraw-Hill
*File 624: Please type 'E JN=' for all current journals available.

      Set  Items  Description
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?s herpes(4w)simplex(4w)virus
Processing
Processed  10 of  22 files ...
Completed processing all files
          153332  HERPES
          132020  SIMPLEX
         1534248  VIRUS
      S1   92464  HERPES(4W)SIMPLEX(4W)VIRUS
?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
?
TIMEOUT: Logged Off 10/10/95 10:24:44 by System

DIALOG DISCONNECTED 00 40 00:00:14:28 145 9

@c dialog


DIALOG CONNECTED

DIALOG INFORMATION SERVICES
PLEASE LOGON:
?##########
ENTER PASSWORD:
?##########
Welcome to DIALOG

Dialog level 38.09.06B

Reconnected in file BIOCHEM 10oct95 10:26:12

SYSTEM:OS  - DIALOG OneSearch
  File   5:BIOSIS PREVIEWS(R)  1969-1995/Oct W2
         (c) 1995 BIOSIS
*File   5: s (Meeting()Abstract) or abstracts/DE for 1994+ conference
records
  File  73:EMBASE  1974-1995/Iss 39
         (c) 1995 Elsevier Science B.V.
  File  76:Life Sciences Collection  1978-1995/Aug
         (c) 1995 Cambridge Sci Abs
  File 125:CLAIMS(R)/US PATENT  JUL 1995/OCT 03
         (c) 1995 IFI/Plenum Data Corp
  File 144:Pascal  1973-1995/Sep
         (c) 1995 INIST/CNRS
  File 155:MEDLINE(R)  1966-1995/Nov W4
         (c) format only 1995 Knight-Ridder Info
  File 156:Toxline(R)  1965-1995/May
         (c) format only 1995 Knight-Ridder Info
  File 305:Analytical Abstracts Online  1980-1995/Oct
         (c) 1995 Royal Soc Chemistry
  File 337:CHEMTOX(R)   1995/Q2
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        (c) 1995 Resource Consultants, Inc.
  File 340:CLAIMS(R)/US Patents Abs  1950-1995/JUL
        (c) 1995 IFI/Plenum Data Corp.
  File 348:EUROPEAN PATENTS  1978-1995/SEP W4
        (c) 1995 European Patent Office
*File 348: Fulltext is forthcoming.  See HELP NEWS 348 for
more information.
  File 350:Derwent World Pat.  1963-1980/UD=9536
        (c) 1995 Derwent Info Ltd
  File 351:DERWENT WPI  1981-1995/UD=9539;UA=9533;UM=9528
        (c)1995 Derwent Info Ltd
  File 357:Derwent Biotechnology Abs  1982-1995/Oct B1
        (c) 1995 Derwent Publ Ltd
  File 358:Current Biotech Abs  1983-1995/Aug
        (c) 1995 Royal Society of Chemistry
*File 358: May 1995 update is in process and should complete later
today (09 Jun 1995).  Subsequent updates should be back on schedule.
  File 377:Derwent Drug File  1983-1995/Oct W1
        (c) 1995 Derwent Info Ltd.
  File 399:CA SEARCH(R)  1967-1995/UD=12315
        (c) 1995 American Chemical Society
*File 399: Use is subject to the terms of your user/customer agreement.
  File 434:SciSearch(R)  1974-1995/Sep W3
        (c) 1995 Inst for Sci Info
  File 442:AMA Online Journal  1982-1995/Aug W4
        (c) 1995 American Medical Assoc.
*File 442: AMA Journals Online updates weekly beginning with UD=9504W3.
  File 444:NEJM Online  1985-1995/Sep W3
        (c) 1995 New England Journal of Medicine.
  File 456:NME Express  1992-1995/Aug B2
        (c) 1995 J.R. Prous S.A.
*File 456: Bi-Weekly ALERTs now available.
  File 624:McGraw-Hill Publications Onl.  1985-1995/Oct 05
        (c) 1995 McGraw-Hill
*File 624: Please type 'E JN=' for all current journals available.

      Set  Items  Description
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?s herpes(4w)simplex(4w)virus
Processing
Processed  10 of  22 files ...
Completed processing all files
         153332  HERPES
         132020  SIMPLEX
        1534248  VIRUS
      S2   92464  HERPES(4W)SIMPLEX(4W)VIRUS
?s vaccine and s2
         236655  VACCINE
          92464  S2
      S3    3212  VACCINE AND S2
?s polypeptide
      S4  252753  POLYPEPTIDE
?s membrane(4w)bound
Processing
Processed  10 of  22 files ...
Completed processing all files
        1906526  MEMBRANE
         556448  BOUND
      S5   68983  MEMBRANE(4W)BOUND
?s s3 and s4
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            3212  S3
          252753  S4
      S6     100  S3 AND S4
?s s6 and s5
             100  S6
           68983  S5
      S7      10  S6 AND S5
?rd
>>>Duplicate detection is not supported for File 125.
>>>Duplicate detection is not supported for File 337.
>>>Duplicate detection is not supported for File 340.
>>>Duplicate detection is not supported for File 348.
>>>Duplicate detection is not supported for File 350.
>>>Duplicate detection is not supported for File 351.
>>>Duplicate detection is not supported for File 456.

>>>Records from unsupported files will be retained in the RD set.
...completed examining records
      S8       7  RD (unique items)
?t s8/6/1-7

 8/6/1     (Item 1 from file: 5)
11478401     BIOSIS Number: 98078401
  Expression and characterization of baculovirus expressed herpes simplex
virus type 1 glycoprotein L
  Print Number: Biological Abstracts Vol. 099 Iss. 004 Ref. 048811


 8/6/2     (Item 1 from file: 155)
09344285   95274285
  Expression  of  membrane-bound and secreted forms of equine herpesvirus 1
glycoprotein D by recombinant baculovirus.


 8/6/3     (Item 1 from file: 351)
004272169  WPI Acc No: 85-099047/17
XRAM Acc No: C85-042865
    Vaccine contg. poly. peptide with exposed antigenic determinants useful
    for giving protection against herpes simplex virus


 8/6/4     (Item 1 from file: 357)
036148  DBA Accession No.: 85-06937
Membrane-bound polypeptide having antigenic determinants - useful for
    binding to herpes simplex virus


 8/6/5     (Item 2 from file: 357)
036147  DBA Accession No.: 85-06936
Vaccine containing polypeptide with exposed antigenic determinants - useful
    for giving protection against herpes simplex virus


 8/6/6     (Item 1 from file: 434)
13663171   Genuine Article#: QF404   Number of References: 27
Title: EXPRESSION OF MEMBRANE-BOUND AND SECRETED FORMS OF EQUINE
    HERPESVIRUS-1 GLYCOPROTEIN-D BY RECOMBINANT BACULOVIRUS  (Abstract
    Available)
```

8/6/7 (Item 1 from file: 444)
00102344

Patterns of Persistent Viral Infections (Medical Progress)
?t s8/6/1-7

8/6/1 (Item 1 from file: 5)
11478401 BIOSIS Number: 98078401
Expression and characterization of baculovirus expressed herpes simplex virus type 1 glycoprotein L
Print Number: Biological Abstracts Vol. 099 Iss. 004 Ref. 048811

8/6/2 (Item 1 from file: 155)
09344285 95274285
Expression of membrane-bound and secreted forms of equine herpesvirus 1 glycoprotein D by recombinant baculovirus.

8/6/3 (Item 1 from file: 351)
004272169 WPI Acc No: 85-099047/17
XRAM Acc No: C85-042865
Vaccine contg. poly. peptide with exposed antigenic determinants useful for giving protection against herpes simplex virus

8/6/4 (Item 1 from file: 357)
036148 DBA Accession No.: 85-06937
Membrane-bound polypeptide having antigenic determinants - useful for binding to herpes simplex virus

8/6/5 (Item 2 from file: 357)
036147 DBA Accession No.: 85-06936
Vaccine containing polypeptide with exposed antigenic determinants - useful for giving protection against herpes simplex virus

8/6/6 (Item 1 from file: 434)
13663171 Genuine Article#: QF404 Number of References: 27
Title: EXPRESSION OF MEMBRANE-BOUND AND SECRETED FORMS OF EQUINE HERPESVIRUS-1 GLYCOPROTEIN-D BY RECOMBINANT BACULOVIRUS (Abstract Available)

8/6/7 (Item 1 from file: 444)
00102344

Patterns of Persistent Viral Infections (Medical Progress)
?t s8/5/1-7

8/5/1 (Item 1 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)

11478401 BIOSIS Number: 98078401
Expression and characterization of baculovirus expressed herpes simplex virus type 1 glycoprotein L
Ghiasi H; Kaiwar R; Slanina S; Nesburn A B; Wechsler S L
Ophthalmol. Res., Davis Bldg. Rm 5072, Cedars-Sinai Med. Cent., 8700

Beverly Blvd., Los Angeles, CA 90048, USA
Archives of Virology 138 (3-4). 1994. 199-212.
Full Journal Title: Archives of Virology
ISSN: 0304-8608
Language: ENGLISH
Print Number: Biological Abstracts Vol. 099 Iss. 004 Ref. 048811

We have constructed a recombinant baculovirus expressing high levels of the herpes simplex virus type 1 (HSV-1) glycoprotein L (gL) in Sf9 cells. Sf9 cells infected with this recombinant virus synthesized three polypeptides of 26-27 kDa 28 kDa, and 31 kDa. The 28 and 31 kDa species were sensitive to tunicamycin and N-glycosidase F (PNGase F) treatment, suggesting that they were glycosylated. As shown by both indirect immunofluorescence and Western blot analysis, using polyclonal antibodies to synthetic gL peptides indicated that the baculovirus expressed gL was abundant on the surface of baculovirus gL infected Sf9 cells. A small fraction of the 31 kDa polypeptide was secreted into the extracellular medium as judged by Western blot analysis. The secreted form of gL was completely resistant to Endoglycosidase H (Endo-H), while the membrane associated form of gL was only partially resistant to Endo-H treatment, suggesting that the secreted gL represented a subpopulation of the membrane bound gL. Mice vaccinated with baculovirus expressed gL produced serum antibodies that reacted with authentic HSV-1 gL. However, these mice produced no HSV-1 neutralizing antibody (titer lt 1: 10) and they were not protected from lethal intraperitoneal or lethal ocular challenge with HSV-1. Thus, when used as a vaccine in the mouse model, gL, similar to our findings with HSV-1 gH, but unlike our results with the other 6 HSV-1 glycoproteins that we have expressed in this baculovirus system, did not provide any protection against HSV-1 challenge.

Descriptors/Keywords: RESEARCH ARTICLE; MOUSE; SF9 CELLS; GLYCOSYLATION; SURFACE EXPRESSION; SECRETION; VACCINE SUITABILITY; CHALLENGE PROTECTION; GENETIC ENGINEERING

Concept Codes:
*10064 Biochemical Studies-Proteins, Peptides and Amino Acids
*10068 Biochemical Studies-Carbohydrates
*10508 Biophysics-Membrane Phenomena
*13004 Metabolism-Carbohydrates
*13012 Metabolism-Proteins, Peptides and Amino Acids
*22018 Pharmacology-Immunological Processes and Allergy
*31500 Genetics of Bacteria and Viruses
*33506 Virology-Animal Host Viruses
*34504 Immunology and Immunochemistry-Bacterial, Viral and Fungal
*36006 Medical and Clinical Microbiology-Virology
*64076 Invertebrata, Comparative and Experimental Morphology, Physiology and Pathology-Insecta-Physiology

Biosystematic Codes:
02603 Baculoviridae (1993-)
02612 Herpesviridae (1993-)
75330 Lepidoptera
86375 Muridae

Super Taxa:
Microorganisms; Viruses; Animals; Invertebrates; Arthropods; Insects; Chordates; Vertebrates; Nonhuman Vertebrates; Mammals; Nonhuman Mammals ; Rodents

8/5/2 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09344285 95274285

Expression of membrane-bound and secreted forms of equine herpesvirus 1 glycoprotein D by recombinant baculovirus.

Flowers CC; Flowers SP; Sheng Y; Tarbet EB; Jennings SR; O'Callaghan DJ
Department of Microbiology and Immunology, Louisiana State University Medical Center, Shreveport 71130-3932, USA.

Virus Res (NETHERLANDS) Jan 1995, 35 (1) p17-34, ISSN 0168-1702
Journal Code: X98
Contract/Grant No.: AI 22001, AI, NIAID
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9508
Subfile: INDEX MEDICUS

Analyses of the synthesis and processing of recombinant full-length glycoprotein D of equine herpesvirus type 1 (EHV-1; gD392) or recombinant truncated gD (gD352) expressed in baculovirus-infected Sf9 cells revealed the following: (1) gD polypeptides encoded by both recombinant baculoviruses react with gD-specific antibodies including peptide-specific antiserum that neutralizes EHV-1 in a plaque reduction assay, (2) both the full-length recombinant gD392 and the truncated gD352 are expressed predominantly as gD species that contain high mannose-type oligosaccharides (55 kDa and 52 kDa, respectively), (3) both the full-length recombinant gD392 and the truncated gD352 are also expressed in lesser amounts as gD species that contain complex-type oligosaccharides (58 kDa and 55 kDa, respectively) as well as the unglycosylated forms of gD (43 kDa and 37 kDa, respectively), (4) flow cytometric analyses of cells expressing gD392 revealed that gD first appears on the cell surface at 24 h post infection; by 60 h, 95% of the cells express high levels of cell surface gD, (5) cells expressing gD352, in contrast to cells expressing gD392, secrete gD into the extracellular medium. This initial demonstration that immunoreactive EHV-1 glycoprotein D can be produced as a secreted polypeptide in the baculovirus system should provide reagents to assess the potential use of gD as a subunit vaccine in an animal model.

Tags: Animal; Comparative Study; Support, U.S. Gov't, Non-P.H.S.; Support, U.S. Gov't, P.H.S.
Descriptors: *Genetic Vectors--Genetics--GE; *Herpesvirus 1, Equid --Genetics--GE; *Membrane Proteins--Biosynthesis--BI; *Nuclear Polyhedrosis Virus--Genetics--GE; *Recombinant Fusion Proteins--Biosynthesis--BI; *Viral Envelope Proteins--Biosynthesis--BI; Antibodies, Viral--Immunology--IM; Cell Line; Glycosylation; Herpesvirus 1, Equid--Immunology--IM; Membrane Proteins--Genetics--GE; Membrane Proteins--Immunology--IM; Oligosaccharides--Analysis--AN; Protein Processing, Post-Translational; Recombinant Fusion Proteins--Immunology--IM; Recombinant Fusion Proteins--Secretion--SE; Spodoptera; Viral Envelope Proteins--Genetics--GE; Viral Envelope Proteins --Immunology--IM; Viral Envelope Proteins--Secretion--SE
CAS Registry No.: 0 (glycoprotein D, herpes simplex virus type 1); 0 (Antibodies, Viral); 0 (Genetic Vectors); 0 (Membrane Proteins); 0 (Oligosaccharides); 0 (Recombinant Fusion Proteins); 0 (Viral Envelope Proteins)

8/5/3 (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI

004272169 WPI Acc No: 85-099047/17
XRAM Acc No: C85-042865
Vaccine contg. poly. peptide with exposed antigenic determinants useful for giving protection against herpes simplex virus
Patent Assignee: (GETH) GENENTECH INC
Author (Inventor): LASKY L A; BERMAN P W

Number of Patents: 010
Patent Family:

CC	Number	Kind	Date	Week	
AU	8432423	A	850307	8517	(Basic)
EP	139417	A	850502	8518	
ZA	8406764	A	850228	8523	
DK	8404122	A	850411	8536	
JP	60155128	A	850815	8539	
ES	8605039	A	860801	8644	
ES	8705036	A	870701	8730	
EP	139417	B	890726	8930	
DE	3479085	G	890831	8936	
IL	72785	A	900726	9035	

Priority Data (CC No Date): US 588170 (840309); US 527917 (830830); US 547551 (831031)
Applications (CC,No,Date): AU 8432423 (840827); EP 84305909 (840829); ZA 846764 (840829); JP 84183623 (840830); ES 535554 (840830); ES 552539 (860228)
Language: English
EP and/or WO Cited Patents: EP 73656; EP 68693; EP 101655; WO 8302897; US 4374127; US 4317811; EP 1365; DE 2949031; 3.Jnl.REF; EP 60129; EP 100521; EP 133063
Designated States (Regional): AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE
Filing Details: EP0139417 (+31.10.83-US-547551) (1248AP); JP60155128 (+31.10.83-US551)5 (44pp); EP0139417 (+31.10.83-US-547551) (CM)

Abstract (Basic): AU 8432423

Vaccine comprising a membrane-bound polypeptide (I) having exposed antigenic determinants capable of raising neutralising antibodies against a pathogen is new. The (I) is functionally associated with a membrane of a recombinant, stable, continuous cell line capable of its prodn.

The vaccine may also comprise a membrane-free (I), dissolved free from the membrane after its prodn. is new.

Vaccine comprising a truncated membrane-free deriv. of a membrane-bound (I) is new. The deriv. is devoid of membrane-binding domain and the deriv. (I) is free from the membrane and has exposed antigenic determinants capable of raising neutralising antibodies against a pathogen.

USE/ADVANTAGE - Membrane bound (I) and membrane free (I) are useful as vaccines to give protection against herpes simplex viruses 3 and/or 2 by raising antibodies against them. Therefore the occurrence of herpes infections or redn. in frequency and severity in individuals already infected can be achieved. See AU8432424. @(93pp Dwg.No 0/16)@

Abstract (EP): 8930 EP 139417

A process which comprises producing a truncated, membrane-free deviation of a membrane-bound polypeptide, said derivative being devoid of membrane-binding domain whereby the derivative polypeptide is free of said membrane, and having exposed antigenic determinants capable of raising neutralising antibodies against a pathogen, said method comprising expressing DNA encoding said derivative in a stable eukaryotic cell line transfected with said DNA. @(53pp)@

File Segment: CPI
Derwent Class: B04; D16;
Int Pat Class: A61K-039/00; C07C-103/52; C07H-021/04; C12N-015/00; C12N-005/00; C12P-021/00; C12R-001/91; C07K-015/16
Manual Codes (CPI/A-N): B02-V; B04-B02B; B04-B04C; B04-C01; B12-A06; D05-H07
Chemical Fragment Codes (M1):
01 M421 M710 M903 N135 P210 Q233 V274 V901

8/5/4 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs

036148 DBA Accession No.: 85-06937 PATENT
Membrane-bound polypeptide having antigenic determinants - useful for binding to herpes simplex virus
PATENT ASSIGNEE: Genentech 1985
PATENT NUMBER: AU 8432424 PATENT DATE: 850307 WPI ACCESSION NO.: 85-099048 (8517)
PRIORITY APPLIC. NO.: US 587763 APPLIC. DATE: 840309
NATIONAL APPLIC. NO.: AU 8432424 APPLIC. DATE: 840827
LANGUAGE: English
ABSTRACT: A diagnostic product comprising membrane-bound polypeptide (I) having antigenic determinants capable of specific binding of complementary antibody is new. The (I) is functionally associated with a membrane of a recombinant stable continuous cell line capable of its production. A diagnostic kit is also described. Membrane-bound (I) are useful as diagnostic agents and are obtained in large amounts by recombinant DNA technology in non-pathogenic form. They may be obtained from a stable continuous cell line. As (I) are especially capable of binding herpes simplex virus specific antibodies, they may also be used in vaccines against the virus or to reduce the effects of an existing infection. The (I) is especially a glycoprotein (C or D) of herpes simplex virus type 1 or 2 and is capable of binding to the antibodies. It may be a fragment of glycoprotein C and then binds to types 1 or 2 or to type 1 alone. It may be linked to a label e.g. an enzyme, or to a solid surface. The diagnostic kit may contain unlabeled and labeled complementary antibody. (95pp)
DESCRIPTORS: cloned membrane-bound polypeptide prep., appl. to diagnosis, vaccine prep. for e.g. herpes simplex virus
SECTION: Pharmaceuticals-Vaccines; Cell Culture-Animal Cell Culture; Microbiology-Genetics (D4,J1,A1)

8/5/5 (Item 2 from file: 357)
DIALOG(R)File 357:Derwent Biotechnology Abs

036147 DBA Accession No.: 85-06936 PATENT
Vaccine containing polypeptide with exposed antigenic determinants - useful for giving protection against herpes simplex virus
PATENT ASSIGNEE: Genentech 1985
PATENT NUMBER: AU 8432423 PATENT DATE: 850307 WPI ACCESSION NO.: 85-099047 (8517)
PRIORITY APPLIC. NO.: US 588170 APPLIC. DATE: 840309
NATIONAL APPLIC. NO.: AU 8432423 APPLIC. DATE: 840827
LANGUAGE: English
ABSTRACT: A vaccine comprising a membrane-bound polypeptide (I) having exposed antigenic determinants capable of raising neutralizing antibodies against a pathogen is new. The (I) is functionally associated with a membrane of a recombinant stable, continuous cell line capable of its production. The vaccine may comprise a membrane-free (I) dissolved free from the membrane after its production. A vaccine comprising a truncated membrane-free derivative of a membrane-bound (I) is also described. The derivative is devoid of membrane-binding domain and the derivative (I) is free from the membrane and has exposed antigenic determinants capable of raising

neutralizing antibodies against a pathogen. Membrane-bound (I) and membrane-free (I) are useful as vaccines to give protection against herpes simplex virus 1 and/or 2. The recombinant host cell is a stable eukaryotic cell line or a mammalian cell line, and (I) is especially a glycoprotein of herpes simplex virus type 1 or 2. (93pp)
DESCRIPTORS: membrane-bound polypeptide vaccine prep. for e.g. herpes simplex virus, cell culture
SECTION: Pharmaceuticals-Vaccines; Cell Culture-Animal Cell Culture (D4,J1)

8/5/6 (Item 1 from file: 434)
DIALOG(R)File 434:SciSearch(R)

13663171 Genuine Article#: QF404 Number of References: 27
Title: EXPRESSION OF MEMBRANE-BOUND AND SECRETED FORMS OF EQUINE HERPESVIRUS-1 GLYCOPROTEIN-D BY RECOMBINANT BACULOVIRUS
Author(s): FLOWERS CC; FLOWERS SP; SHENG YW; TARBET EB; JENNINGS SR; OCALLAGHAN DJ
Corporate Source: LOUISIANA STATE UNIV,MED CTR,DEPT MICROBIOL & IMMUNOL,1501 KINGS HIGHWAY/SHREVEPORT//LA/71130; LOUISIANA STATE UNIV,MED CTR,DEPT MICROBIOL & IMMUNOL/SHREVEPORT//LA/71130
Journal: VIRUS RESEARCH, 1995, V35, N1 (JAN), P17-34
ISSN: 0168-1702
Language: ENGLISH Document Type: ARTICLE
Geographic Location: USA
Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences
Journal Subject Category: VIROLOGY
Abstract: Analyses of the synthesis and processing of recombinant full-length glycoprotein D of equine herpesvirus type 1 (EHV-1; gD392) or recombinant truncated go (gD352) expressed in baculovirus-infected Sf9 cells revealed the following: (1) go polypeptides encoded by both recombinant baculoviruses react with go-specific antibodies including peptide-specific antiserum that neutralizes EHV-1 in a plaque reduction assay, (2) both the full-length recombinant gD392 and the truncated gD352 are expressed predominantly as go species that contain high mannose-type oligosaccharides (55 kDa and 52 kDa, respectively), (3) both the full-length recombinant gD392 and the truncated gD352 are also expressed in lesser amounts as go species that contain complex-type oligosaccharides (58 kDa and 55 kDa, respectively) as well as the unglycosylated forms of go (43 kDa and 37 kDa, respectively), (4) flow cytometric analyses of cells expressing gD392 revealed that go first appears on the cell surface at 24 h post infection; by 60 h, 95% of the cells express high levels of cell surface go, (5) cells expressing gD352, in contrast to cells expressing gD392, secrete go into the extracellular medium. This initial demonstration that immunoreactive EHV-1 glycoprotein D can be produced as a secreted polypeptide in the baculovirus system should provide reagents to assess the potential use of go as a subunit vaccine in an animal model.
Descriptors--Author Keywords: EQUINE HERPESVIRUS TYPE 1 ; GLYCOPROTEIN D ; BACULOVIRUS ; SECRETED GD
Identifiers--KeyWords Plus: SIMPLEX VIRUS TYPE-1; UNIQUE SHORT SEGMENT; D GENE; SEQUENCE-ANALYSIS; HOMOLOG; IDENTIFICATION; VECTORS; GENOME
Research Fronts: 93-2767 002 (BACULOVIRUS EXPRESSION SYSTEM; INSECT CELLS; AUTOGRAPHA-CALIFORNICA NUCLEAR POLYHEDROSIS-VIRUS; RECOMBINANT VIRAL INSECTICIDES)
93-0591 001 (HERPES-SIMPLEX VIRUS TYPE-1; TRANSPORT CAPSID ASSEMBLY PROTEIN (TP CAP) GENE; EXHIBIT ALTERED VIRAL THYMIDINE KINASE EXPRESSION)

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8/5/7 (Item 1 from file: 444)
DIALOG(R)File 444:NEJM Online

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Patterns of Persistent Viral Infections (Medical Progress)

Haywood, Anne M. M.D.
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* * USE FORMAT 9 FOR FULL TEXT OF ARTICLE * *

?e au=berman, philip w.

Ref	Items	Index-term
E1	2	*AU=BERMAN, PHILIP W.
E2	1	AU=BERMAN, PHILIPP W.
E3	8	AU=BERMAN, PHILLIP
E4	16	AU=BERMAN, PHILLIP M.
E5	41	AU=BERMAN, PHILLIP W.
E6	2	AU=BERMAN, PHILLIP WAYNE

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E7         3  AU=BERMAN, PHYLLIS M.
E8        42  AU=BERMAN, R.
E9         1  AU=BERMAN, R. A.
E10        9  AU=BERMAN, R. F.
E11       10  AU=BERMAN, R. G.
E12        1  AU=BERMAN, R. H.

          Enter P or PAGE for more
?s e1
>>>One or more prefixes are unsupported
>>>  or undefined in one or more files.
      S9       2  AU="BERMAN, PHILIP W."
?rd
>>>Duplicate detection is not supported for File 125.
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>>>Duplicate detection is not supported for File 340.
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>>>Records from unsupported files will be retained in the RD set.
...completed examining records
     S10       2  RD (unique items)
?t s10/5/1-2

 10/5/1     (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
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  121032740    CA: 121(3)32740z    JOURNAL
  Comparison of the immune response to recombinant gp120 in humans and
chimpanzees
  AUTHOR(S): Berman, Philip W.; Eastman, Donna J.; Wilkes, Denise M.;
Nakamura, Gerald R.; Gregory, Timothy J.; Schwartz, David; Gorse, Geoffrey;
Belshe, Robert; Clements, Mary Lou; et al.
  LOCATION: Dep. Immunol., South San Francisco, CA, 94080, USA
  JOURNAL: AIDS (London)  DATE: 1994  VOLUME: 8  NUMBER: 5  PAGES: 591-601
  CODEN: AIDSET  ISSN: 0269-9370  LANGUAGE: English
  SECTION:
CA215002 Immunochemistry
  IDENTIFIERS: antibody gp120 glycoprotein chimpanzee HIV, human
immunodeficiency virus antibody gp120 glycoprotein
  DESCRIPTORS:
Sialoglycoproteins,gp120env...
    antibodies in chimpanzee and humans to recombinant, of HIV-1IIIB,
    comparison of
Acquired immune deficiency syndrome...
    antibody response to recombinant HIV gp120 glycoprotein in humans and
    chimpanzee in relation to
Vaccines...
    for human immunodeficiency virus, antibody response to recombinant
    gp120 glycoprotein in humans and chimpanzee in relation to
Virus,animal, human immunodeficiency 1...
    gp120 glycoprotein of, antibodies in chimpanzee and humans to
    recombinant, comparison of
Antigens,CD4...
    gp120 glycoprotein of HIV-1IIIB binding to, recombinant protein-induced
    human and chimpanzee antibodies inhibition of
Antibodies,crossreacting... Antibodies,neutralizing...
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to HIV-1 strains, recombinant gp120 glycoprotein induction of, in humans and chimpanzee
Antibodies...
to recombinant gp120 glycoprotein of HIV-1IIIB, in humans and chimpanzee, avidity and half-life for

10/5/2 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)

106212415 CA: 106(25)212415w JOURNAL
Native and recombinant herpes simplex virus type 1 envelope proteins induce human immune T-lymphocyte resonances
AUTHOR(S): Torseth, John W.; Cohen, Gary H.; Eisenberg, Roselyn J.; Berman, Philip W.; Lasky, Larry A.; Cerini, Costantino P.; Heilman, Conrad J.; Kerwar, Somesh; Merigan, Thomas C.
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CODEN: JOVIAM ISSN: 0022-538X LANGUAGE: English
SECTION:
CA215010 Immunochemistry
IDENTIFIERS: herpes simplex virus glycoprotein T lymphocyte
DESCRIPTORS:
Lymphokines and Cytokines,interleukin 2...
formation of, herpes simplex virus type 1 envelope proteins induction of, in humans
Interferons,.gamma.-...
formation of, herpes simplex virus type 1 envelope proteins stimulation of, in humans
Glycoproteins,specific or class, gB... Glycoproteins,specific or class, gC ... Glycoproteins,specific or class, gD...
from herpes simplex virus type 1 envelope, lymphokines and helper T-lymphocyte stimulation by, in humans
Virus,animal, herpes simplex 1...
glycoproteins of envelope of, lymphokines and helper T-lymphocytes stimulation by, in humans
Lymphocyte,T-, helper...
herpes simplex virus type 1 envelope proteins stimulation of, of humans
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Set	Items	Description
S1	92464	HERPES(4W)SIMPLEX(4W)VIRUS
S2	92464	HERPES(4W)SIMPLEX(4W)VIRUS
S3	3212	VACCINE AND S2
S4	252753	POLYPEPTIDE
S5	68983	MEMBRANE(4W)BOUND
S6	100	S3 AND S4
S7	10	S6 AND S5
S8	7	RD (unique items)
S9	2	AU="BERMAN, PHILIP W."
S10	2	RD (unique items)

?s secreted and s6

	114522	SECRETED
	100	S6
S11	9	SECRETED AND S6

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>>>Duplicate detection is not supported for File 125.
>>>Duplicate detection is not supported for File 337.
>>>Duplicate detection is not supported for File 340.

>>>Duplicate detection is not supported for File 348.
>>>Duplicate detection is not supported for File 350.
>>>Duplicate detection is not supported for File 351.
>>>Duplicate detection is not supported for File 456.

>>>Records from unsupported files will be retained in the RD set.
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S12 6 RD (unique items)
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12/5/1 (Item 1 from file: 5)
DIALOG(R)File 5:BIOSIS PREVIEWS(R)

11478401 BIOSIS Number: 98078401
Expression and characterization of baculovirus expressed herpes simplex virus type 1 glycoprotein L
Ghiasi H; Kaiwar R; Slanina S; Nesburn A B; Wechsler S L
Ophthalmol. Res., Davis Bldg. Rm 5072, Cedars-Sinai Med. Cent., 8700 Beverly Blvd., Los Angeles, CA 90048, USA
Archives of Virology 138 (3-4). 1994. 199-212.
Full Journal Title: Archives of Virology
ISSN: 0304-8608
Language: ENGLISH
Print Number: Biological Abstracts Vol. 099 Iss. 004 Ref. 048811
We have constructed a recombinant baculovirus expressing high levels of the herpes simplex virus type 1 (HSV-1) glycoprotein L (gL) in Sf9 cells. Sf9 cells infected with this recombinant virus synthesized three polypeptides of 26-27 kDa 28 kDa, and 31 kDa. The 28 and 31 kDa species were sensitive to tunicamycin and N-glycosidase F (PNGase F) treatment, suggesting that they were glycosylated. As shown by both indirect immunofluorescence and Western blot analysis, using polyclonal antibodies to synthetic gL peptides indicated that the baculovirus expressed gL was abundant on the surface of baculovirus gL infected Sf9 cells. A small fraction of the 31 kDa polypeptide was secreted into the extracellular medium as judged by Western blot analysis. The secreted form of gL was completely resistant to Endoglycosidase H (Endo-H), while the membrane associated form of gL was only partially resistant to Endo-H treatment, suggesting that the secreted gL represented a subpopulation of the membrane bound gL. Mice vaccinated with baculovirus expressed gL produced serum antibodies that reacted with authentic HSV-1 gL. However, these mice produced no HSV-1 neutralizing antibody (titer lt 1: 10) and they were not protected from lethal intraperitoneal or lethal ocular challenge with HSV-1. Thus, when used as a vaccine in the mouse model, gL, similar to our findings with HSV-1 gH, but unlike our results with the other 6 HSV-1 glycoproteins that we have expressed in this baculovirus system, did not provide any protection against HSV-1 challenge.
Descriptors/Keywords: RESEARCH ARTICLE; MOUSE; SF9 CELLS; GLYCOSYLATION; SURFACE EXPRESSION; SECRETION; VACCINE SUITABILITY; CHALLENGE PROTECTION; GENETIC ENGINEERING
Concept Codes:
*10064 Biochemical Studies-Proteins, Peptides and Amino Acids
*10068 Biochemical Studies-Carbohydrates
*10508 Biophysics-Membrane Phenomena
*13004 Metabolism-Carbohydrates
*13012 Metabolism-Proteins, Peptides and Amino Acids
*22018 Pharmacology-Immunological Processes and Allergy
*31500 Genetics of Bacteria and Viruses
*33506 Virology-Animal Host Viruses
*34504 Immunology and Immunochemistry-Bacterial, Viral and Fungal

*36006 Medical and Clinical Microbiology-Virology
*64076 Invertebrata, Comparative and Experimental Morphology, Physiology and Pathology-Insecta-Physiology
Biosystematic Codes:
02603 Baculoviridae (1993-)
02612 Herpesviridae (1993-)
75330 Lepidoptera
86375 Muridae
Super Taxa:
Microorganisms; Viruses; Animals; Invertebrates; Arthropods; Insects; Chordates; Vertebrates; Nonhuman Vertebrates; Mammals; Nonhuman Mammals ; Rodents

12/5/2 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

11847825 PASCAL No.: 95-0010546
Expression and characterizatoin of baculovirus expressed herpes simplex virus type 1 glycoprotein L
GHIASI H; KAIWAR R; SLANINA S; BESBURN A B; WECHSLER S L
UCLA, school medicine, ophthalmology res., Los Angeles CA 90048, USA
Journal: Archives of virology, 1994, 138 (3-4) 199-212
ISSN: 0304-8608 Availability: INIST-6355; 354000042419320020
No. of Refs.: 22 ref.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: Austria
Language: English
We have constructed a recombinant baculovirus expressing high levels of the herpes simplex virus type 1 (HSV-1) glycoprotein L (gL) in Sf9 cells. Sf9 cells infected with this recombinant virus synthesized three polypeptides of 2627 kDa 28 kDa, and 31 kDa. The 28 and 31 kDa species were sensitive to tunicamycin and N-glycosidase F (PNGase F) treatment, suggesting that they were glycosylated. As shown by both indirect immunofluorescence and Western blot analysis, using polyclonal antibodies to synthetic gL peptides indicated that the baculovirus expressed gL was abundant on the surface of baculovirus gL infected Sf9 cells. A small fraction of the 31 kDa polypeptide was secreted into the extracellular medium as judged by Western blot analysis

English Descriptors: Herpesvirus hominis 1; Nuclear polyhedrosis virus; Recombinant protein; Gene expression; Vaccine; Immunogenicity; Antigenicity; Mouse
Broad English Descriptors: Alphaherpesvirinae; Herpesviridae; Virus; Baculovirus; Baculoviridae; Rodentia; Mammalia; Vertebrata

French Descriptors: Herpesvirus hominis 1; Virus polyedrose nucleaire; Proteine recombinante; Expression genique; Vaccin; Immunogenicite; Antigenicite; Souris; Glycoproteine L

Classification Codes: 002A05C07

12/5/3 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

09344285 95274285

Expression of membrane-bound and secreted forms of equine herpesvirus 1 glycoprotein D by recombinant baculovirus.
Flowers CC; Flowers SP; Sheng Y; Tarbet EB; Jennings SR; O'Callaghan DJ
Department of Microbiology and Immunology, Louisiana State University Medical Center, Shreveport 71130-3932, USA.
Virus Res (NETHERLANDS) Jan 1995, 35 (1) p17-34, ISSN 0168-1702 Journal Code: X98
Contract/Grant No.: AI 22001, AI, NIAID
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9508
Subfile: INDEX MEDICUS
Analyses of the synthesis and processing of recombinant full-length glycoprotein D of equine herpesvirus type 1 (EHV-1; gD392) or recombinant truncated gD (gD352) expressed in baculovirus-infected Sf9 cells revealed the following: (1) gD polypeptides encoded by both recombinant baculoviruses react with gD-specific antibodies including peptide-specific antiserum that neutralizes EHV-1 in a plaque reduction assay, (2) both the full-length recombinant gD392 and the truncated gD352 are expressed predominantly as gD species that contain high mannose-type oligosaccharides (55 kDa and 52 kDa, respectively), (3) both the full-length recombinant gD392 and the truncated gD352 are also expressed in lesser amounts as gD species that contain complex-type oligosaccharides (58 kDa and 55 kDa, respectively) as well as the unglycosylated forms of gD (43 kDa and 37 kDa, respectively), (4) flow cytometric analyses of cells expressing gD392 revealed that gD first appears on the cell surface at 24 h post infection; by 60 h, 95% of the cells express high levels of cell surface gD, (5) cells expressing gD352, in contrast to cells expressing gD392, secrete gD into the extracellular medium. This initial demonstration that immunoreactive EHV-1 glycoprotein D can be produced as a secreted polypeptide in the baculovirus system should provide reagents to assess the potential use of gD as a subunit vaccine in an animal model.
Tags: Animal; Comparative Study; Support, U.S. Gov't, Non-P.H.S.; Support, U.S. Gov't, P.H.S.
Descriptors: *Genetic Vectors--Genetics--GE; *Herpesvirus 1, Equid --Genetics--GE; *Membrane Proteins--Biosynthesis--BI; *Nuclear Polyhedrosis Virus--Genetics--GE; *Recombinant Fusion Proteins--Biosynthesis--BI; *Viral Envelope Proteins--Biosynthesis--BI; Antibodies, Viral--Immunology--IM; Cell Line; Glycosylation; Herpesvirus 1, Equid--Immunology--IM; Membrane Proteins--Genetics--GE; Membrane Proteins--Immunology--IM; Oligosaccharides--Analysis--AN; Protein Processing, Post-Translational; Recombinant Fusion Proteins--Immunology--IM; Recombinant Fusion Proteins--Secretion--SE; Spodoptera; Viral Envelope Proteins--Genetics--GE; Viral Envelope Proteins --Immunology--IM; Viral Envelope Proteins--Secretion--SE
CAS Registry No.: 0 (glycoprotein D, herpes simplex virus type 1); 0 (Antibodies, Viral); 0 (Genetic Vectors); 0 (Membrane Proteins); 0 (Oligosaccharides); 0 (Recombinant Fusion Proteins); 0 (Viral Envelope Proteins)

12/5/4 (Item 1 from file: 434)
DIALOG(R)File 434:SciSearch(R)

13663171 Genuine Article#: QF404 Number of References: 27
Title: EXPRESSION OF MEMBRANE-BOUND AND SECRETED FORMS OF EQUINE HERPESVIRUS-1 GLYCOPROTEIN-D BY RECOMBINANT BACULOVIRUS
Author(s): FLOWERS CC; FLOWERS SP; SHENG YW; TARBET EB; JENNINGS SR; OCALLAGHAN DJ
Corporate Source: LOUISIANA STATE UNIV,MED CTR,DEPT MICROBIOL &

IMMUNOL,1501 KINGS HIGHWAY/SHREVEPORT//LA/71130; LOUISIANA STATE UNIV,MED CTR,DEPT MICROBIOL & IMMUNOL/SHREVEPORT//LA/71130
Journal: VIRUS RESEARCH, 1995, V35, N1 (JAN), P17-34
ISSN: 0168-1702
Language: ENGLISH Document Type: ARTICLE
Geographic Location: USA
Subfile: SciSearch; CC LIFE--Current Contents, Life Sciences
Journal Subject Category: VIROLOGY
Abstract: Analyses of the synthesis and processing of recombinant full-length glycoprotein D of equine herpesvirus type 1 (EHV-1; gD392) or recombinant truncated go (gD352) expressed in baculovirus-infected Sf9 cells revealed the following: (1) go polypeptides encoded by both recombinant baculoviruses react with go-specific antibodies including peptide-specific antiserum that neutralizes EHV-1 in a plaque reduction assay, (2) both the full-length recombinant gD392 and the truncated gD352 are expressed predominantly as go species that contain high mannose-type oligosaccharides (55 kDa and 52 kDa, respectively), (3) both the full-length recombinant gD392 and the truncated gD352 are also expressed in lesser amounts as go species that contain complex-type oligosaccharides (58 kDa and 55 kDa, respectively) as well as the unglycosylated forms of go (43 kDa and 37 kDa, respectively), (4) flow cytometric analyses of cells expressing gD392 revealed that go first appears on the cell surface at 24 h post infection; by 60 h, 95% of the cells express high levels of cell surface go, (5) cells expressing gD352, in contrast to cells expressing gD392, secrete go into the extracellular medium. This initial demonstration that immunoreactive EHV-1 glycoprotein D can be produced as a secreted polypeptide in the baculovirus system should provide reagents to assess the potential use of go as a subunit vaccine in an animal model.
Descriptors--Author Keywords: EQUINE HERPESVIRUS TYPE 1 ; GLYCOPROTEIN D ; BACULOVIRUS ; SECRETED GD
Identifiers--KeyWords Plus: SIMPLEX VIRUS TYPE-1; UNIQUE SHORT SEGMENT; D GENE; SEQUENCE-ANALYSIS; HOMOLOG; IDENTIFICATION; VECTORS; GENOME
Research Fronts: 93-2767 002 (BACULOVIRUS EXPRESSION SYSTEM; INSECT CELLS; AUTOGRAPHA-CALIFORNICA NUCLEAR POLYHEDROSIS-VIRUS; RECOMBINANT VIRAL INSECTICIDES)
93-0591 001 (HERPES-SIMPLEX VIRUS TYPE-1; TRANSPORT CAPSID ASSEMBLY PROTEIN (TP CAP) GENE; EXHIBIT ALTERED VIRAL THYMIDINE KINASE EXPRESSION)
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12/5/5 (Item 1 from file: 444)
DIALOG(R)File 444:NEJM Online

00108320

Mechanisms of Disease: The Molecular Biology Of Human Immunodeficiency Virus Type 1 Infection (Review Article)

Greene, Warner C.
The New England Journal of Medicine
Jan 31, 1991; 324 (5),pp 308-317
LINE COUNT: 00566 WORD COUNT: 07820
ISSN: 0028-4793
CORPORATE SOURCE: From the Department of Medicine, Howard Hughes Medical Institute, and the Department of Microbiology and Immunology, Duke University Medical Center, Durham, NC 27710, where reprint requests should be addressed to Dr. Greene.

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Drug Therapy -- Clinical Pharmacology Of 3'-azido-2',3'-dideoxythymidine (zidovudine) And Related Dideoxynucleosides (Medical Intelligence)

Yarchoan, Robert; Mitsuya, Hiroaki; Myers, Charles E.; Broder, Samuel.
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following information: Charles Myers is an equity holder in Bristol Myers and has agreed to become a paid member of a drug monitoring committee for Adria Laboratories. Samuel Broder, Hiroaki Mitsuya, and Robert Yarchoan are coinventors on government patents for 2′,3′-dideoxycytidine, 2′,3′-dideoxyadenosine, and 2′,3′-dideoxyinosine, as full-time employees of the U.S. government under the terms of the Federal Technology Transfer Act. All rights, title, and interest to these patents have been assigned to the government, which gives part of the royalties it receives to its employee inventors.

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US PAT NO: 5,292,636 [IMAGE AVAILABLE] L6: 1 of 5

ABSTRACT:
The present invention is directed to the measurement of soluble T cell growth factor receptors, soluble T cell differentiation antigens, or related soluble molecules or fragments thereof, and the use of such measurements in the diagnosis, staging, and therapy of diseases and disorders. Specific embodiments involve the diagnosis and monitoring of therapy using absolute values of such soluble molecules. Further embodiments involve detecting a change in the levels of such soluble molecules, in the diagnosis and therapy of diseases and disorders. In specific embodiments, measurements of interleukin-2 receptor levels can be made to detect lung cancer, or to stage squamous cell lung carcinoma. In other embodiments, detection of increases in both soluble IL2R and creatinine in the body fluid of a transplant patient can be used to differentially diagnose renal allograft rejection from infection. The invention is also directed to methods for measurement of soluble CD4 antigens, which measurements can be used, in a specific embodiment, to diagnose a state of immune activation, to diagnose rheumatoid arthritis, to monitor therapeutic efficacy (e.g. of AIDS treatments), or to stage adult T cell leukemia in a patient. In another aspect, the invention relates to the detection, staging, and monitoring of therapy of diseases and disorders by measuring a plurality of soluble T cell markers.

1. 5,292,636, Mar. 8, 1994, Therapeutic and diagnostic methods using soluble T cell surface molecules; Patrick C. Kung, et al., 435/5, 7.23, 7.24, 7.9, 7.94, 34, 974, 975; 436/506, 518, 536, 548, 811, 813 [IMAGE AVAILABLE]

US PAT NO: 5,262,177 [IMAGE AVAILABLE] L6: 2 of 5

ABSTRACT:
Peptides or proteins related to a melanoma associated antigen are described. These are produced in large quantities via recombinant DNA techniques and/or by chemical synthetic methods. The peptides or proteins can be used as immunogens in vaccine formulations which can induce an immune response that selectively destroys melanoma cells in a vaccinated individual. Where the peptides or proteins are expressed by a recombinant virus, inactivated or live virus vaccine formulations may be prepared.

2. 5,262,177, Nov. 16, 1993, Recombinant viruses encoding the human melanoma-associated antigen; Joseph P. Brown, et al., 435/235.1;

424/185.1, 199.1, 232.1; 435/69.3, 172.3, 240.2, 252.3, 252.33, 320.1; 530/350; 536/23.5; 935/9, 32, 41, 57, 65, 70, 73 [IMAGE AVAILABLE]

US PAT NO: 5,141,742 [IMAGE AVAILABLE] L6: 3 of 5

ABSTRACT:
Peptides or proteins related to a melanoma associated antigen are described. These are produced in large quantities via recombinant DNA techniques and/or by chemical synthetic methods. The peptides or proteins can be used as immunogens in vaccine formulations which can induce an immune response that selectively destroys melanoma cells in a vaccinated individual. Where the peptides or proteins are expressed by a recombinant virus, inactivated or live virus vaccine formulations may be prepared.

3. 5,141,742, Aug. 25, 1992, Vaccines against melanoma; Joseph P. Brown, et al., 424/186.1, 277.1; 435/69.3, 70.1, 71.1, 71.2; 530/350, 395; 536/23.5 [IMAGE AVAILABLE]

US PAT NO: 5,041,379 [IMAGE AVAILABLE] L6: 4 of 5

ABSTRACT:
The present invention relates to recombinant vector/host systems which can direct the expression of foreign genes under the control of the Heliothis polyhedrin promoter. Using the systems of the present invention, a heterologous gene of interest can be expressed as an unfused peptide or protein, a fusion protein, or as a recombinant occlusion body which comprises crystallized polyhedrin fusion proteins bearing the heterologous gene product on the surface of or within the occlusion body. The recombinant proteins or occlusion bodies of the present invention have uses in vaccine formulations and immunoassays, as biological insecticides, and as expression systems for the production of foreign peptides or proteins.

4. 5,041,379, Aug. 20, 1991, Heliothis expression systems; Malcolm J. Fraser, et al., 435/235.1, 69.1, 70.1, 172.3, 240.2, 320.1; 536/23.2, 23.6, 23.72; 935/3, 6, 9, 22, 33, 34, 47, 48, 59, 60, 61, 66, 70 [IMAGE AVAILABLE]

US PAT NO: 4,855,224 [IMAGE AVAILABLE] L6: 5 of 5

ABSTRACT:
A molecularly cloned diagnostic product in the form of a polypeptide with antigenic determinants capable of specifically binding complementary antibody, the polypeptide being expressed from a stable continuous cell line. With a glycoprotein D of Herpes Simplex Virus (HSV) as the polypeptide , HSV antibody in a specimen is detected in an immunological procedure. With a glycoprotein C fragment from HSV type 2, HSV type 2 may be distinguished from HSV type 1.

5. 4,855,224, Aug. 8, 1989, Molecularly cloned diagnostic product and method of use; Phillip W. Berman, et al., 435/5, 172.3, 240.2; 930/224 [IMAGE AVAILABLE]

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